

Patent Number(s): JP52123489-A

Title: Heat resistant polyester prodn. - using opt. halogenated organo-tin and trivalent antimony cpds.

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Derwent Primary Accession Number: 1977-84085Y [47]

Patents Cited by Inventor: 0 **Citing Patents:** 0 **Articles Cited by Inventor:** 0

Patents Cited by Examiner: 0 **Articles Cited by Examiner:** 0

Abstract:

Polyesters are prepd. by polycondensation of bifunctional carboxylic acids glycol ester (I) and/or its low polymer, using trivalent antimony cpd. as the polycondensation catalyst and tetravalent tin cpd(s) of formulae (I), (II) and (III). These are added after the esterification or trans-esterification. The molar ratio of Sn/Sb is 0.005-0.1: (I) is prepd. by reacting bifunctional carboxylic acid contg. chiefly terephthalic acid, or its ester-forming deriv. with glycol, contg. chiefly ethylene glycol, or its ester-forming deriv. In the formulae R1 = 1-10C alkyl, cycloalkyl, aryl or OH; R2 and R3 = 1-10C alkyl cycloalkyl, or aryl; X and Y are halo 1-12C alkoxy (pref. C2H5O) and Z = halogen (pref. Cl) R1-3 is pref. C4H9. Halogen is pref. Cl. The polyester has improved colour tone and heat resistance.

The trivalent antimony cpds. are antimony trioxide antimony glycolate, etc. and are used pref. in concs. of 0.03-0.1 mol% based on the acid component in the polymer.

International Patent Classification: C08G-063/36

Derwent Class: A23 (Polyamides, polyesters, polycarbonates, alkyds)

Derwent Manual Code(s): A02-A07; A02-B; A05-E01A

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
JP52123489-A	17 Oct 1977		197747		

Priority Application Information and Date:

JP039264	09 Apr 1976
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